| Form PTO-1449 U.S. I partment of Commerce (REV. 8-83) Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT | | | Atty. Doct 2001796-0008 | In re Application No. 10/087,667 | | |
|--|--|---|-------------------------|----------------------------------|-----------|--|
| | | | Applicant: A.John Bra | mley | | |
| | | | Filing Date: | Filing Date: Group: | | |
| (Use several sheets if necessary) | | February 28, 2002 1637 | | 32 | | |
| U.S. PATEN | r documents | | | | | |
| Examiner's | U.S. Patent No. | Applicant | Issue Date | Class | Subclass | |
| Initials | | | | | | |
| OU | *4,931,390 | Recsei | June 5, 1990 | 435 | 183 | |
| | *5,011,772 | Recsei | April 30, 1991 | 435 | 69.1 | |
| | *5,124,145 | Sordillo et al. | June 23, 1992 | 424 | 85.5 | |
| | *5,189,015 | Höök et al. | February 23, 1993 | 514 | 2 | |
| | *5,234,684 | Sordillo et al. | August 10, 1993 | 424 | 85.5 | |
| | *5,342,612 | Daley et al. | August 30, 1994 | 424 | 85.1 | |
| | *5,607,919 | Bojsen et al. | March 4, 1997 | 514 | 12 | |
| | *6,028,051 | Climo et al. | February 22, 2000 | 514 | 2 | |
| U.S. PATENT | Γ APPLICATIONS | | | | | |
| Examiner's Initials: | Serial Number: | Applicant: | Filing Date: | Group: | Art Unit: | |
| FOREIGN PA | ATENT DOCUMENTS | | | | | |
| Examiner's | Document No. | Country | Date | Translation | | |
| Initials | | | | Yes | No | |
| | *WO 87/06264 | International | 22 October 1987 | | | |
| | *WO 96/35793 | International | 14 November 1996 | | | |
| | *WO 99/05289 | International | 4 February 1999 | | | |
| | *EP 0 359 873 | Europe | 19 September 1988 | | | |
| | *EP_0-759 473 | Europe | 23 August 1995 | | | |
| OTHER DO | CUMENTS | | | | | |
| Examiner's Initials | Citation (Including Au | Citation (Including Author, Title, Date, Pertinent Pages, Etc.) | | | | |
| VED 2002 | Transfer of the hGH GRetrovirus Vectors", F | *Archer, et al., "Human Growth Hormone (hGH) Secretion in Milk of Goats After Direct Transfer of the hGH Gene into the Mammary Gland by Using Replication-Defective Retrovirus Vectors", <i>Proc. Natl.Acad. Sci.</i> 91:6840-44, July 1994. | | | | |
| <u> </u> | *Auldist, et al., "Chan During the Lactation C | *Auldist, et al., "Changes in the Composition of Milk from Healthy and Mastitic Dairy Cows During the Lactation Cycle" Aust. J. Exp. Agricul. 35: 427-36, 1995. | | | | |
| | *Auldist, et al., "Effec | *Auldist, et al., "Effect of Somatic Cell Count and Stage of Lactation on the Quality and Storage Life of Ultra High Temperature Milk", J. Dairy Res. 63: 377-386, 1996. *Barbano, et al., "Influence of Milk Somatic Cell Count and Milk Age on Cheese Yield", J. | | | | |
| | Storage Life of Ultra | | | | | |

Ju World 2/3/04

| | (O I P | | | |
|---|---|-----------------------------------|----------------------------------|--|
| Form PTO-144 (REV. 8-83) | S. Dertment of Commerce | Atty. Dock 2001796-0008 | In re Application No. 10/087,667 | |
| IN FORMAL TO | k · // | Applicant: A.John Bram | | |
| INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) | | Filing Date: February 28, 2002 | Group: | |
| Dairy Sci. 74: 369-88, 1991. | | | | |
| | *Bramley, et al., "Effects of Lysostaphin on Staphylococcus Aureus Infections of the Mouse Mammary Gland", Research in Veterinary Science, 49: 120-21; 1990. | | | |
| | *Bramley, et al., "Reviews of the Progress of Dairy Science: Mastitic Control - Progress and Prospects" Journal of Dairy Research, 51, 481-512, 1984. | | | |
| | *Chandler, R.L., "Experimental Bacterial Mastitis in the Mouse", J. Med. Microbiol. 3: 273-82, 1970. | | | |
| | *Chomczynski, et al., "Single-Step Method of RNA Isolation by Acid Guanidinium Thiocyanate-Phenol-Chloroform Extraction", Anal. Biochem. 162: 156-59, 1987. | | | |
| | *Craven, et al., "Phagocytosis of Staphylococcus Aureus by Bovine Mammary Gland Macrophages and Intracellular Protection from Antibiotic Action in Vitor and In Vivo", J. Dairy Res. 51: 513-23, 1984. | | | |
| <u></u> - | *Craven, et al., "Antibiotic Activity Against Intraleukocytic Staphylococcus Aureus in Vitro and In Experimental Mastitis in Mice", Am. J. Vet. Res, 44:(4), 709-12, 1983. | | | |
| | *Daley, et al., "Lysostaphin: Immunogenicity of Locally Administered Recombinant Protein Used in Mastitis Therapy", Veterinary Immunology and Immunopathology, 31: 301-12, 1992. | | | |
| | *Derbyshire, et al., "Immunization Against Experimental Staphylococcal Mastitis in the Goat by the Intramammary Infusion of Cell-Toxojd Vaccine" Res. Vet. Sci., 10:559-64, 1969 | | | |
| | *Ebert, et al., "Transgenic Production of a Variant of Human Tissue-Type Plasminogen Activator in Goat Milk: Generation of Transgenic Goats and Analysis of Expression", Bio/Technology, 9: 835-38, 1991. | | | |
| | *Gordon, et al., "Production of Human Tissue Plasminogen Activator in Transgenic Mouse Milk", Bio/Technology, 5: 1183-87,/1987. | | | |
| | *Harmon, et al., "Concentration of Lactoferrin in Milk of Normal Lactating Cows and Changes Occurring during Mastins" Am. J. Vet. Res.36: 1001-1007, 1975. | | | |
| | *Heinrich, et al., "The Molecular Organization Repeated in Tandem", Mol. Gen Genet, 209:50 | 63-69, 1987. | ĺ | |
| | *Jacob, et al., "Potential Therapeutic Application Agents of Animal Origin", Ciba. Found. Symp | o. 186: 197-216, discussion | n, 216-23, 1994. | |
| 2007 2007 (600/29 | *Kagan, et al., "Defensins: A Family of Antim 87: 131-49, 1994. | icrobial and Cytotoxic Per | otides", Toxicology, | |
| OE 1 2 2 SINGER 1 | *Kerr, et al., "Expression of Jet-Injected Plasm Lymph Nodes Draining the Injection Site", NO | OT MUCH HERE. | | |
| 回るも | *Klei, et al., "Effects of Milk Somatic Cell Col Dairy Sci. 81:1205-13, 1998. | | ľ | |
| E B | *Kossaibati, et al., "Incidence of Clinical Mast 143:649-53, 1998. | | 1 | |
| | *Krimpenford, et a., "Generation of Transgenic Production," Bio/Technology, 9: 844-47, 1991. | Dairy Cattle Using 'In Vi | tro' Embryo | |
| *Liang, et al., "Molecular Cloning and Nucleotide Sequence of the B-Lytic Protease Gene | | | | |

c Protease Gene

704 Worland 2/3/04

| Form PTO/1449 | ·U.S. Deartment of Commerce | Atty. Dock | In re Application No. | |
|-------------------------|---|-----------------------------|-----------------------|--|
| (REV. 8-83) JIL (| Patent and Trademark Office | 2001796-0008 | 10/087,667 | |
| | | Applicant: A.John Bramley | | |
| | DISCEOSURE STATEMENT | Filing Date: | Group: | |
| (Use severa | sneets if necessary) | February 28, 2002 | | |
| | from Achromobacter Lyticus" Journal of Bac | eteriology, 172(11): 6506- | 11; 1990. | |
| | *Maga, et al., "Antimicrobial Properties of Human Lysozyme Transgenic Mouse Milk", J. Food Prot. 61: 52-56, 1998. | | | |
| 90 | *Maga, et al., "The Effect of Mammary Gland Expression of Human Lysozyme on the Properties of Milk From Transgenic Mice", J. Dairy Sci. 78: 2645-52, 1995. | | | |
| - | *Myllys, et al., "Bovine Mastitis in Finland in 1988 and 1995Changes in Prevalence and Antimicrobial Resistance", Acta Vet. Scand. 39: 119-126, 1998. | | | |
| | *Nickerson, et al., "Symposium: Mastitis in Dairy Heifers, Mastitis in Dairy Heifers: Initial Studies on Prevalence and Control", J Dairy Sci, 78: 1607-18, 1995. | | | |
| | *Nuijens, et al., "Characterization of Recombinant Human Lactoferrin Secreted in Milk of Transgenic Mice-" The Journal of Biological Chemistry, 272 (13): 8802-07, 1997. | | | |
| • | *Oldham, et al., "Lysostaphin: Use of a Recombinant Bactericidal Enzyme as a Mastitis Therapeutic", J. Dairy Sci., 74: 41/75-82, 1991. | | | |
| · 40 | *Platenburg, et al., "Expression of Human Lactoferrin Milk of Transgenic Mice", Transgenic Res. 3: 99-108, 1994. | | | |
| - QW | *Plaut, et al., "Integration of the lacZ Gene into the Mammary Gland Using an Adenovirus Vector", Journal of Dairy Science, 80:1, 1997. | | | |
| | *Recsei, et al., "Cloning, Sequence, and Expression of the Lysostaphin Gene From Staphylococcus Simulans", <i>Proc. Natl. Acad. Sci., USA</i> , 84: 1127-31, 1987. | | | |
| | *Reiter, B., "Review of the Progress of Dairy Science: Antimicrobial Systems in Milk", J. Dairy Res. 45: 131-47, 1978. | | | |
| | *Sambrook, et al., Molecular Cloning: A Lab | poratory Manual, 2nd Ed., 1 | 989. | |
| | *Schindler, et al., "Lysostaphin: A New Bateriolytic Agent For the Staphylococcus. Proc. Natl. Acad. Sci. U.S.A. 51: 414-421, 1964. | | | |
| - | *Schnieke, et al., "Human Factor IX Transgénic Sheep Produced by Transfer of Nuclei From Transfected Fetal Fibroblasts", Science, 2/18: 2130-33, 1997. | | | |
| | *Shockman, et al., "Stucture, Function, and Assembly of Cell Walls of Gram-Positive Bacteria", Annu. Rev. Microbiol. 37: 501-27, 1983. | | | |
| VED 2002 1600/290 | *Sutra, et al., "Virulence Factors Involved in Infections Due to Staphylococcus Aureaus", | _ | - 6 | |
| - A | *Takahashi, et al., "Nonspecific Antibacterial Human Oral Bacterial Pathogens", J. Dairy S | | vs Immunized with | |
| Ö. | *Thumm, et al., "Studies on Prolysostaphin Processing and Characterization of the Lysostaphin Immunity Factor (Lif) of Staphylococcus Simulans Biovar Staphylolyticus" 5Molecular Microbiology, 23(6), 1251-65, 1997. | | | |
| ţ | *Verdi, et al., "Variability in True Protein, Ca High and Low Somatic Cell Milks", J. Dairy | Sci. 70: 230-42, 1987. | | |
| | *Wall, et al., "High-Level Synthesis of a Hete of Transgenic Swine" Proc. Natl. Acad Sci. L. | • | he Mammary Glands | |

Joe Worland 2/3/04





JUL 1 7 2002 TECH CENTER 1600/2900

| Form PTO-1449 | U.S. Department of Commerce | Atty. Docket: | In re Application No. | |
|-----------------------------------|---|---------------------------|-----------------------|--|
| (REV. 8-83) | Patent and Trademark Office | 2001796-0008 | 10/087,667 | |
| | | Applicant: A.John Bramley | | |
| INFORMATION DISCLOSURE STATEMENT | | Filing Date: | Group: | |
| (Use several sheets if necessary) | | February 28, 2002 | | |
| · | *Watson, et al., "A Field Trial to Test the Efficacy of a Staphylococcal Mastitis Vaccine in Commercial Dairies in Australia", | | | |
| | *Williamson, et al., "Expression of Lysostaphin in the Milk of Transgenic Animals to Combat Staphylococcal Mastistis", J. Appl Bacterial. 67:6, xxi, 1986. | | | |
| · 00 | *Williamson, et al., "Expression of the Lysostaphin Gene of Staphylococcus Simulans in a Eukaryotic System", Applied and Environment Microbiology, 60:3, 771-76, March, 1994. | | | |
| · | *Wilson, et al., "Bovine Mastitis Pathogens in New York an Pennsylvania: Prevalence and Effects on Somatic Cell Count and Milk Production", J. Dairy Sci. 80: 2592-98, 1997. | | | |
| • | *Wright, et al., "High Level Expression of Active Human Alpha-1-Antitrypsin in the Milk of Transgenic Sheep", Bio/Technology, 9:830-34, 1991. | | | |
| | *Yamada, et al., "An Autolysin Ring Associated with Cell Separation of Staphylococcus Aureus", J. Bacterial. 178: 1565-71, 1996. | | | |
| | *Yancey, et al., "Activity of Antibiodics Against Staphylococcus Aureus Within Polymorphonuclear Neutrophils", Eur. J. Clin. Microbiol. Infect. Dis. 10:107-113, 1991. | | | |
| | *Yarus, et al., "Production of Active Bovine Trachael Antimicrobial Peptide in Milk of Transgenic Mice", Proc. Natl. Acad. Sci. USA, 93, 14118-21, November, 1996. | | | |
| | *Zavizion, et al., "Effects of Staphylococcus Aureus Toxins on the Growth of Bovine Maramary Epithelial Cells (MAC-T) in Culture", J. Dairy Sci., 78, 277-84, 1995. | | | |
| EXAMINER | Joe Worlder 10 | ATE CONSIDERED | 213/04 | |
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